

**Version With Markings To Show Changes Made**

Brackets to designate deletions are in bold typeface to distinguish them from brackets that may be an integral part of the text.

**In the Specification:**

At page 1, line 2, after the Title, please insert the following continuing data paragraph:

--This application is a division of U.S. Serial No. 09/399,212 filed September 17, 1999, abandoned, and is further related to U.S. Serial No. 09/898,200, filed July 2, 2001, which is a division of U.S. Serial No. 09/399,212.--

At page 1, line 4, after the Statement of "Government License Rights", please delete the entire continuing data paragraph before "Background of the Invention."

[This application is a division of U.S. Serial No. 09/399,212 filed September 17, 1999, and is further related to U.S. Serial No. \_\_\_\_\_, filed July 2, 2001, which is a division of U.S. Serial No. 09/399,212.]

At page 11, lines 17-19, please delete the paragraph, and insert the following paragraph therefor:

--Figure 2 shows a genetic map of the bm region of mouse chromosome 19. The 0.7 cM interval containing the disease gene and locus *D19Mit13* is shown with a darker line; nucleotide sequence of the *D19Mit13* locus and flanking sequences are shown in SEQ ID NO:29.--

At page 11, lines 20-25, please delete the paragraph, and insert the following paragraph therefor:

--Figure 3 shows a variant allele of PAPSS2 associated with SEMD Pakistani type. Sequences derived from amplified DNA fragment from an affected family member (SEMD) and from a control (NL) are shown. An arrow at nucleotide +1424 marks the location of a mutation, and the DNA sequence and the implied effect of the mutation on the PAPSS2 protein sequence is summarized below the nucleotide sequence. “Normal” shows nucleotide positions +1414 through +1431 of the PAPSS2 coding sequence (SEQ ID NO:30), with the corresponding amino acid sequence (SEQ ID NO:31) directly underneath. “SEMD” shows nucleotide positions +1414 through +1431 of the PAPSS2 coding sequence containing the mutation at nucleotide position +1424 (SEQ ID NO:32) that produces a TAA stop codon, with the corresponding amino acid sequence (SEQ ID NO:33) directly underneath; “X” indicates truncation of the PAPSS2 protein after amino acid residue 474 of SEQ ID NO:7.--

At page 12, lines 1-3, please delete the entire paragraph.

[Figure 2 shows a genetic map of the bm region of mouse chromosome 19. The 0.7 cM interval containing the disease gene and locus *D19Mit13* is shown with a darker line]

At page 12, lines 4-9, please delete the entire paragraph.

[Figure 3 shows a variant allele of PAPSS2 associated with SEMD Pakistani type. Sequences derived from amplified DNA fragment from an affected family member (SEMD) and from a control (NL) are shown. An arrow at nucleotide +1424 marks the location of a mutation, and the DNA sequence and the implied effect of the mutation on the PAPSS2 protein sequence is summarized below the nucleotide sequence.]